**SQL PROJECT   
HEALTHCARE DATASETS**

This project entails 106,988 records of healthcare datasets. It contains patients medical appointments and whether they showed up or not

PatientID, AppointmentID ----- identifiers

Gender, Age ---- demographics

ScheduledDay, AppointmentDay, DateDiff --- scheduling info (time between booking & appointment)

Scholarship, Hypertension, Diabetes, Alcoholism, Handicap --- health & social conditions

SMSReceived ----- reminder message indicator

Showed\_up ----- target variable (whether the patient attended the appointment)

**Possible Business Questions This Dataset Can Answer**:

**Attendance Prediction**

What factors influence whether patients show up for their appointments?

Can we build a model to predict no-shows?

**Scheduling Optimization**

Does the gap between scheduling and appointment day (DateDiff) affect attendance?

What’s the ideal waiting period to maximize attendance?

**Demographic Analysis**

Do age or gender groups have different attendance rates

Are younger or older patients more likely to miss appointments

**Health Condition Insights**

Do patients with chronic conditions hypertension, diabetes, etc have higher or lower attendance?

Does having multiple conditions affect likelihood of showing up

**Communication Effectiveness**

Does receiving an SMS reminder improve attendance rates?

How effective are reminders across different age groups?

**Equity & Support**

Do scholarship (low-income support) patients have different attendance behavior?

Should the hospital target support to reduce no-shows?

The main business question here is likely

What factors influence patient no-shows, and how can the hospital improve appointment attendance